

WHAT IS CLAIMED IS

1. A treating method for treating a radioactive liquid waste containing a surface active agent, comprising the steps of:

adding hydrogen peroxide to said radioactive liquid waste containing an organic substance including said surface active agent; and

charging ozone to said radioactive liquid waste;

wherein said ozone is charged while heating said radioactive liquid waste to 50°C or higher.

2. A treating method as defined in claim 1, wherein said ozone is charged in a plurality of aeration vessels supplied with said radioactive liquid waste, in which said ozone is charged into one of the aeration vessels and then ozone discharged therefrom is charged into other aeration vessel.

3. A treating method as defined in claim 2, wherein bubbles of ozone charged in said aeration vessel are broken.

4. A treating method as defined in claim 1, wherein an alkali solution is added to said radioactive liquid waste.

5. A treating method as defined in claim 2, wherein an alkali solution is added to said radioactive liquid waste and pH of said radioactive liquid waste supplied to said aeration vessel is adjusted to 7 or higher.

6. A treating method as defined in any one of claims 1 to 5, comprising a step of removing a solid component contained in said radioactive liquid waste in which said organic substance is decomposed.

Sub B3 7. A treating apparatus for treating a radioactive liquid waste containing a surface active agent, comprising:
a means for adding aqueous hydrogen peroxide to said radioactive liquid waste containing an organic substance including said surface active agent;
a heating device for heating said radioactive liquid wastes;
a thermometer for measuring the temperature of said radioactive liquid wastes;
a control device for controlling said heating device such that said radioactive liquid waste is at a predetermined temperature by using the measured value of said thermometer; and
a means for charging ozone to said radioactive liquid waste.

8. A treating apparatus as defined in claim 7, further comprising a means for breaking bubbles of the ozone charged in said radioactive liquid waste.

Sub A2 9. A treating apparatus as defined in claim 7 or 8, wherein an alkali solution is added to said radioactive liquid waste.

Sub A²

10. A treating apparatus as defined in any one of claims 7 to 9, further comprising a means for removing a solid component contained in said radioactive liquid waste in which said organic substance is decomposed.

Add A³

10. A treating apparatus as defined in any one of claims 7 to 9, further comprising a means for removing a solid component contained in said radioactive liquid waste in which said organic substance is decomposed.